

**METHOD FOR AN ELECTRONIC NEWSLETTER SUBSCRIPTION
SYSTEM OF A MULTIMEDIA MESSAGING SERVICE**

BACKGROUND OF THE INVENTION

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Field of the Invention

The present invention relates to multimedia messaging services. More specifically, the present invention discloses a method for a newsletter subscription system of a multimedia messaging service, whereby subscribers can use unstructured supplementary service data (USSD) protocol or wireless application protocol (WAP) via mobile phones or access the Internet via a computer, to subscribe to newsletters in order to allow users to receive newsletters on mobile phones which have multimedia messaging service receiving functions.

15 **Description of the Prior Art**

Due to the fast development and growth of Short Messaging Service (SMS), people's lifestyles have changed, such as in their work, leisure and entertainment. People can use SMS to receive and download text messages to their mobile phones, in order to obtain the latest information, like stock market info or news. However, SMS only offers 20 transmitting or downloading text messages. Additionally, the capacity of each message is only 69 Chinese characters or 159 English letters. Furthermore, it does not allow transmitting or downloading images or animations. These inconveniences are just some of the disadvantages of the current message service.

Today, people can manage images, text and audio on 3rd generation (3G) mobile 25 phones by using multimedia messaging services (MMS). That is to say, people can use

MMS on their mobile phones to send and receive images and movie clips, so that the disadvantages mentioned above can be overcome.

However, utilization of advanced services, such as subscription and delivery services has yet to be implemented. Therefore, there is need for an effective and efficient
5 method for an automatic content subscription.

SUMMARY OF THE INVENTION

To achieve these and other advantages and in order to overcome the disadvantages of the conventional method in accordance with the purpose of the invention as embodied
10 and broadly described herein, the present invention provides a method for a newsletter subscription system of a multimedia messaging service, whereby subscribers can use unstructured supplementary service data (USSD) protocol or wireless application protocol (WAP) via mobile phones or access the Internet via a computer, to subscribe to newsletters in order to allow users to receive newsletters on mobile phones which have multimedia
15 messaging service receiving functions.

An objective of the present invention is to provide a method for a newsletter subscription system of a multimedia messaging service, so that mobile phone users can subscribe to newsletters through different tools, and can receive newsletters directly on mobile phones that can receive MMS. In this way, the added value of mobile phones is
20 enhanced and user satisfaction is increased.

The present invention, method for an electronic newsletter subscription system of a multimedia messaging service, allows subscribers to use WAP or USSD protocols via mobile phone or to access the Internet or Web via a computer to enter a subscription portal
25 in order to subscribe to newsletters. At the same time, users can also check the various

newsletters they subscribed to previously. When it is time to send the newsletters, according to the set time, a push portal accesses the service provider where the newsletters are stored, in order to obtain the newsletter contents and the list of subscribers. Then, according to the list of subscribers, the push portal sends the newsletters to a multimedia messaging service center through a common service platform. Finally, the MMS center sends the received newsletters to the mobile phones of the subscribers.

In this way, the present invention for an MMS electronic newsletter subscription system provides an easily and effective means of distribution.

These and other objectives of the present invention will become obvious to those of ordinary skill in the art after reading the following detailed description of preferred embodiments.

It is to be understood that both the foregoing general description and the following detailed description are exemplary, and are intended to provide further explanation of the invention as claimed.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying drawings are included to provide a further understanding of the invention, and are incorporated in and constitute a part of this specification. The drawings illustrate embodiments of the invention and, together with the description, serve to explain the principles of the invention. In the drawings,

Figure 1 is a block diagram illustrating a method for a newsletter subscription system of a multimedia messaging service, according to an embodiment of the present

invention; and

Figure 2 is a block diagram illustrating a method for a newsletter subscription system of a multimedia messaging service, according to an embodiment of the present invention.

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DESCRIPTION OF THE PREFERRED EMBODIMENTS

Reference will now be made in detail to the preferred embodiments of the present invention, examples of which are illustrated in the accompanying drawings. Wherever possible, the same reference numbers are used in the drawings and the description to refer
10 to the same or like parts.

The present invention provides a method for a newsletter subscription system of a multimedia messaging service, so that mobile phone users can subscribe to newsletters through different means, and can receive newsletters directly on mobile phones that can receive MMS. In this way, the added value of mobile phones is enhanced and user
15 satisfaction is increased.

Refer to Figure 1, which is a block diagram illustrating a method for a newsletter subscription system of a multimedia messaging service, according to an embodiment of the present invention.

As shown in Figure 1, mobile phone users can use WAP 10 via a mobile phone or
20 the Web 12 via a computer to enter the subscription portal 20. The subscription portal 20 comprises a list of multimedia electronic newsletters to which subscribers can subscribe. When a subscriber enters the subscription portal 20, the subscriber goes to or is directed to the authorization server 22 to login, in order to utilize the subscription service. After logging in, users can select from a list of different kinds of newsletters available on the

subscription portal 20. These multimedia electronic newsletters are stored at the plurality of multimedia information service content providers 24 (CP1-CPn). The format of the files is typically a compressed format, for example ZIP format. Additional new content can be easily and quickly added, in order to enrich the variety of the service.

5 After the subscriber has selected a type of newsletter, the subscription portal 20 switches the subscription mode to the information content provider 24 of the selected type of newsletter, in order to subscribe to the newsletter. The information content provider 24 is usually located at a remote location away from the rest of the system. The subscription portal 20 connects to the website of the content provider 24 according to the kind of 10 newsletter subscribed to. In doing so, subscribers can subscribe to different kinds of newsletters through the subscription portal 20 only and don't need to go to each independent website in order to subscribe to the newsletters. Therefore, the convenience of subscribing is enhanced.

When subscribing to newsletters, the delivery time can also be chosen, if the 15 information provider supports this function for the subscribers to choose. When the subscriber completes the subscription information, the information content provider 24 sends the chosen newsletter info selected by the subscriber, to a common service platform 26. Each time the subscriber needs to pass an authorization server 22 to complete a login procedure, after which the subscription portal 20 sends a request to the common service 20 platform 26. When the subscriber enters the authorization server 22 and completes login, the subscription portal 20 sends a request to the common service platform 26; so that the previous electronic newsletters subscription details are sent to the subscription portal 20 and are displayed. In this way, the subscriber is able to view all the details of his subscriptions.

25 When it is time to send the electronic newsletters, a push portal 28 enters the

message content provider 24 and obtains the content of the newsletters and a list of subscribers according to the delivery time. The push portal 28 sends the obtained newsletters to a common service platform 26 according to the list of subscribers. After the common service platform 26 receives the message from the push portal 28, it sends a reply 5 or acknowledgement to the push portal 28. Then, after the MMS center 30 receives the message from the common service platform 26, it sends a reply or acknowledgement to the common service platform 26. Finally, the MMS center 30 sends the electronic newsletters to the subscriber's mobile phones to complete the operation.

Additionally, the push portal 28 can control the transmission flow of electronic 10 newsletters. For example, the push portal 28 can be set up to only have one transmission channel for transmitting the electronic newsletter data at a time and each transmission channel only has one setting to send the newsletter to the subscriber. For example, settings could be made so that there are only 5 transmission channels to send newsletters to subscribers at a time, and each transmission channel can send newsletters to 10 subscribers. 15 These settings can be modified according to the situation.

Refer to Figure 2, which is a block diagram illustrating a method for a newsletter subscription system of a multimedia messaging service, according to an embodiment of the present invention.

As shown in Figure 2, subscribers can use USSD 14 via a mobile phone to access 20 the subscription portal 20 with a digital input. The subscription portal 20 displays multiple electronic newsletters so that newsletters can be subscribed to digitally. For example, when a selected newsletter is to be delivered at a certain time, the code of the desired newsletter is input along with the delivery time. Once the subscriber completes the subscription, the subscription portal 20 sends the subscription information to the message 25 content provider 24 of the subscribed newsletter. At the same time, it also sends the

selected newsletter data to the common service platform 26. The subscription portal 20 sends a request or demand to the common service platform 26 in order to obtain the details of the electronic newsletter subscription. The data will then be displayed for reference on the subscription portal 20, when a subscriber enters the subscription portal 20. The
5 subsequent operation of newsletter transmission is the same as previously described.

The method for a newsletter subscription system of a multimedia messaging service according to an embodiment of the present invention allows mobile phone users to use WAP 10, Web 12, or USSD 14 to enter the subscription portal 20 in order to subscribe to electronic newsletters. In doing so, subscribers can use different tools to subscribe to
10 electronic newsletters using a push portal 28 through a common service platform 26 and an MMS center 30 sends the electronic newsletters to the mobile phone of the subscriber. The present invention facilitates the reception of electronic newsletters for subscribers, and enhances the added value of multimedia messaging for mobile phones. It also allows users to receive electronic newsletters with electronic equipment other than computers, in order
15 to increase mobility since it allows subscribers to receive the latest news anywhere. Additionally, using a push portal 28 to send the electronic newsletters controls the flow of transmission and enhances efficiency. The prepared data of the message content provider unit 24 (CP1-CPn) is typically compressed, for example in ZIP file format, in order to shorten the transmission time. The message content provider 24 can update the content of
20 the electronic newsletters rapidly, in order to provide the latest information to the subscribers for a better service.

It will be apparent to those skilled in the art that various modifications and variations can be made to the present invention without departing from the scope or spirit of the invention. In view of the foregoing, it is intended that the present invention cover
25 modifications and variations of this invention provided they fall within the scope of the

invention and its equivalent.